Title (en)

PH MEASUREMENT DEVICE

Publication

EP 0167117 A3 19880615 (EN)

Application

EP 85107990 A 19850627

Priority

JP 13634084 A 19840630

Abstract (en)

[origin: US4579641A] A pH measurement device includes working and reference electrodes. The working electrode has a linear electrically conductive substrate, at least a distal end surface of which consists of platinum, and a selective hydrogen ion permeable layer formed on the distal end face of the substrate. The reference electrode includes an electric conductor formed to be insulated from the working electrode and surrounding the working electrode, a polymer-silver (I) complex layer formed on the outer circumferential surface of the conductor, and an ion-conductive layer containing an anionic compound and formed on the complex layer. The pH of a solution is measured in accordance with a difference between a potential of the working electrode and that of the reference electrode.

IPC 1-7

G01N 27/30

IPC 8 full level

G01N 27/30 (2006.01); **G01N 27/333** (2006.01); **G01N 27/403** (2006.01)

CPC (source: EP US)

G01N 27/4035 (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

BE DE FR GB SE

DOCDB simple family (publication)

US 4579641 A 19860401; DE 3580622 D1 19910103; EP 0167117 A2 19860108; EP 0167117 A3 19880615; EP 0167117 B1 19901122; JP H0441779 B2 19920709; JP S6114562 A 19860122

DOCDB simple family (application)

US 74918985 A 19850626; DE 3580622 T 19850627; EP 85107990 A 19850627; JP 13634084 A 19840630